

BREAKOUT SESSION: CREATING VALUE IN ZERO-EMISSIONS MOBILITY

Reaching net-zero emissions in light duty transport relies greatly on vehicle electrification. 2020 saw 43% growth in electric vehicle (EV) sales, followed, in 2021, by a further rise in sales in all major markets, indicating a beginning of exponential growth. However, the current deployment pace of sustainable and inclusive EV charging infrastructure is insufficient to reach a net-zero scenario for road transport. Viable charging infrastructure coupled with renewable energy use is needed to accommodate an expected number of 350 million light duty EVs on the road by 2030. To enable a timely, sustainable and fair transition, we need a system transformation across the value chain to increase the speed and scale of investments.

This session explored common pathways toward net-zero emissions transport by highlighting business opportunities at the intersection of mobility, energy and the built environment. It demonstrated ambitious business action in fleet electrification and provided a deep dive on business models and incentives. Panelists discussed how a business-model-driven approach can enable the changes needed to ramp up the deployment of EVs and supporting charging infrastructure while at the same time creating shared value.

KEY TAKEAWAYS

- Commitments by fleet owners to decarbonize their vehicles could catalyze electric mobility in local communities. But challenges for efficient operation of electric fleets remain.
- Charging infrastructure coupled with efficient energy and transport integration is critical to scale and accommodate 100% EV fleets.
- WBCSD members across the EV value chain, including automotive manufacturers, utility and real-estate companies, charging providers and other technology providers, are collaborating to enable net-zero light duty transport.
- Technology cost and battery range are a challenge for electrifying heavier vehicles.
- Significant infrastructure investments are required due to a growing need for public charging and increased charging power demands
- Companies can create value in the electric mobility transition by developing new business models and creating services that improve user experience.
- Incentives are needed to ensure accessible network deployment.
- To accelerate deployment of infrastructure, businesses need to work with local and national governments to share knowledge and shorten the permitting process time.

WAY FORWARD

- The WBCSD [Value Framework for sustainable charging infrastructure](#) outlines the cross-sectoral actions needed for ensuring a timely, inclusive and sustainable transition to zero-emissions mobility. Developed with companies from across the EV value chain, the Framework highlights technologies and policies that will help bridge the investment gap to net-zero light-duty transport. **Join us for the launch event at COP26 on 10 November at 09:00 – 11:30 GMT. Register [here](#).**
- As a next step of this work under the [Mobility Decarbonization project](#), we will expand our scope to heavy duty vehicles and continue to innovate on business models and financing mechanisms and align regional deployment roadmaps. We welcome new members to join us.

More information

[Urška Skrt](#)